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TRANSMITTAL FORM		Application Number Filing Date First Named Inventor	10/665,634  September 19, 2003  Charles L. Gray, Jr. REC	
(to be used for all correspondence after initial filing)		Art Unit Examiner Name		EAX CENTER
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Total Number of	of Pages in This Submission	Attorney Docket Number	EPA 680-03 FEB	i)8 2004
ENCLOSURES (Check all that apply)				
Amendm A A Extension Express Informatic Documer Response Incomplet	Copy of Priority	Drawing(s)  Licensing-related Papers  Petition  Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Address Terminal Disclaimer  Request for Refund  CD, Number of CD(s)	After Allowance communication to Technology Center (TC) Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Repty Brief) Proprietary Information Status Letter Other Enclosure(s) (please Identify below):	
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT				-
Firm or Individual name  David H. Read				1
Signature David Read				
Date February 4, 2004				1
CERTIFICATE OF TRANSMISSION/MAILING				
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Signature	Dan	D Rand	Date Feb. 13, 2004	)
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. FEE TRANSMITTA Complete if Known Application Number for FY 2004 Filing Date First Named Inventor Effective 10/01/2003. Patent fees are subject to annual revision. **Examiner Name** Applicant claims small entity status. See 37 CFR 1.27 Art Unit TOTAL AMOUNT OF PAYMENT (\$) Attorney Docket No EPA 680-03 METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued) Check Credit card Money Other 3. ADDITIONAL FEES None Large Entity , Small Entity Deposit Account: Fee Code Deposit Account Fee Description Code (\$) 051128 Fee Paid Number 1051 130 2051 65 Surcharge - late filing fee or cath 4.5 Deposit 1052 50 2052 Surcharge - late provisional filing fee or Envisonmental Protection Age cover sheet The Director is authorized to: (check all that apply) 1053 130 1053 130 Non-English specification 1812 2,520 For filing a request for ex parte reexamination Charge fee(s) indicated below 1812 2,520 Credit any overpayments Charge any additional fee(s) or any underpayment of fee(s) 1804 -9201 Requesting publication of SIR prior to Examiner action Charge fee(s) indicated below, except for the filing fee Requesting publication of SIR after 1805 1,840 1805 1.840\* to the above-identified deposit account. Examiner action 1251 Extension for reply within first month 110 2251 FEE CALCULATION 1252 420 2252 210 Extension for reply within second month 1. BASIC FILING FEE arge Entity Small Entity 1253 950 2253 Extension for reply within third month Fee Fee Code (\$) Code Fee Description Fee Paid 1254 1.480 2254 740 Extension for reply within fourth month 1001 770 2001 1255 2,010 385 2255 1,005 Extension for reply within fifth month Utility filing fee 1002 340 2002 170 Design filing fee 1401 330 2401 185 Notice of Appeal 1003 530 2003 265 Plant filing fee 1402 330 2402 165 Filing a brief in support of an appeal 1004 770 2004 385 Reissue filing fee 1403 290 2403 145 Request for oral hearing 1005 160 2005 Provisional filing fee 1451 1.510 1451 1,510 Petition to institute a public use proceeding 1452 110 SUBTOTAL (1) (\$) 2452 55 Petition to revive - unavoidable 1453 1,330 2453 665 Petition to revive - unintentional 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 1501 1,330 2501 665 Utility issue fee (or reissue) Fee from Extra Claims below Fee Paid 1502 480 2502 240 Design issue fee **Total Claims** 1503 2503 320 Plant issue fee 640 Independent 1460 130 1460 130 Petitions to the Commissioner Multiple Dependent 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) Large Entity Small Entity 1806 180 1806 180 Submission of Information Disclosure Stmt Fee Fee Fee Description Code (\$) 40 Recording each patent assignment per Code (\$) 8021 40 8021 1202 property (times number of properties) 18 2202 Cialms in excess of 20 1809 770 2809 385 Filling a submission after final rejection (37 CFR 1.129(a)) 1201 - 86 2201 Independent claims in excess of 3 43 1203 290 2203 Multiple dependent claim, if not paid 1810 385 For each additional invention to be 770 1204 86 2204 Reissue independent claims examined (37 CFR 1.129(b)) over original patent 1801 770 2801 385 Request for Continued Examination (RCE) 1205 18 2205 \*\* Reissue claims in excess of 20 1802 900 1802 900 Request for expedited examination and over original patent of a design application Other fee (specify) SUBTOTAL (2) (\$) \*Reduced by Basic Filing Fee Paid \*\*or number previously paid, if greater; For Reissues, see above SUBTOTAL (3) (\$) SUBMITTED BY (Complete (if applicable)) Name (Print/Type) Registration No. Read 888 734-214-4367 (Attorney/Agent) Signature Feb.

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:

Charles L. Gray, Jr

Application Number:

10/665,634

Filing Date

September 19, 2003

Invention Title

Methods for low emission, controlled temperature

combustion in engines which utilize late direct cylinder

injection of fuel

**Examiner Name** 

Art Unit

Attorney Docket

EPA 680-03

## PRELIMINARY AMENDMENT

Please delete and replace the first section "CROSS REFERENCE TO RELATED APPLICATION" on the first page of the specification, with the replacement section attached hereto. A clean copy of the replacement section is presented at page 2 of this amendment. The changes made from the original section are shown in the edited format for the section at page 3 of this amendment.